



POLITECNICO DI TORINO

DIGITAL SYSTEMS ELECTRONICS
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PROF. G. MASERA

Lab 07

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1 1.1 Using a switch to toggle the LED, Low Level Approach

Following the instructions in the Lab7document we created an empty project in SWB4STM32, than the pointers for the GPIOA_MODER, GPIOA_ODR, GPIOC_MOER, GPIOC_IDR and RCC_AHB1ENR have been initialized.

The clock has been configured to 1 for the GPIOA and GPIOC devices, after that the GPIOA pin5 has been configured as output and GPIOC pin 13 as input.

The application code starts with the initialization of the led to *off* than we acquire a first time the complemented value of the button in button_old. In the infinite while loop as first time we acquire the complemented button's value in button, after we if a 0-1 transition happened we complement the bit 5 of GPIO_ODR. As last action we update button_old with the value button.